

ABSTRACT OF THE INVENTION

[0001] A compact hinge for mounting between a door and a cabinet in accordance with the present invention utilizes spring tensioning to produce a substantially linear biasing effect upon a hinge arm during the opening and closing of the hinge. An alternate
5 version of the compact hinge provides for a multi-staged tensioning on the hinge arm whereby non-linear biasing force is exerted at a predetermined point in the travel of the hinge arm. The compact hinge of the present invention also comprises a design that is surprisingly efficient.

Abstract

A hinge for use in securing a door to a cabinet, includes a hinge cup portion for installation onto a door, a hinge arm portion for installation onto a cabinet, a spring for rotatable connection between said hinge arm portion and said hinge cup portion, where
5 the spring is capable of exerting a first biasing force for urging the door to a fully closed or fully open position, and a second biasing force for exerting non-linear tension on the spring at a predetermined position during the progression of the door between an open and a closed position.